



Introduction to the ATP

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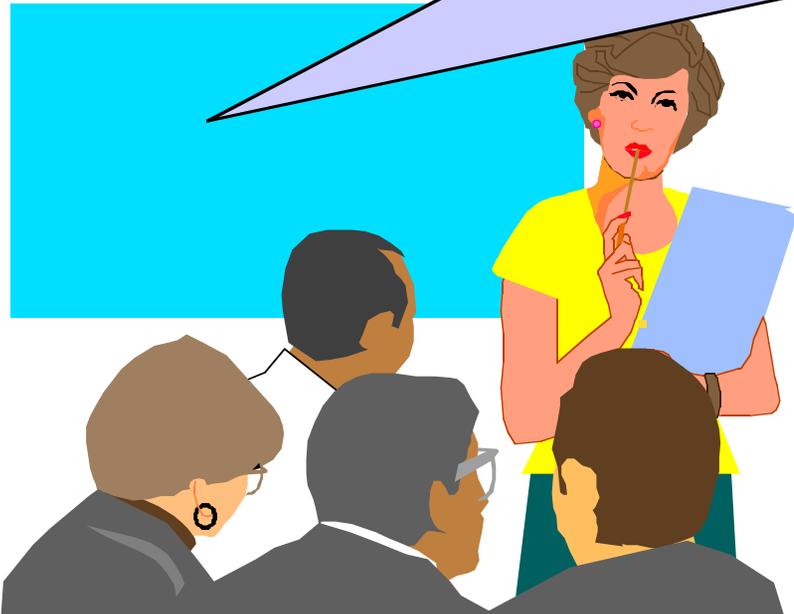
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Wireless Communications

- tremendous growth potential
- technology driven
- capable of producing an endless stream of new products

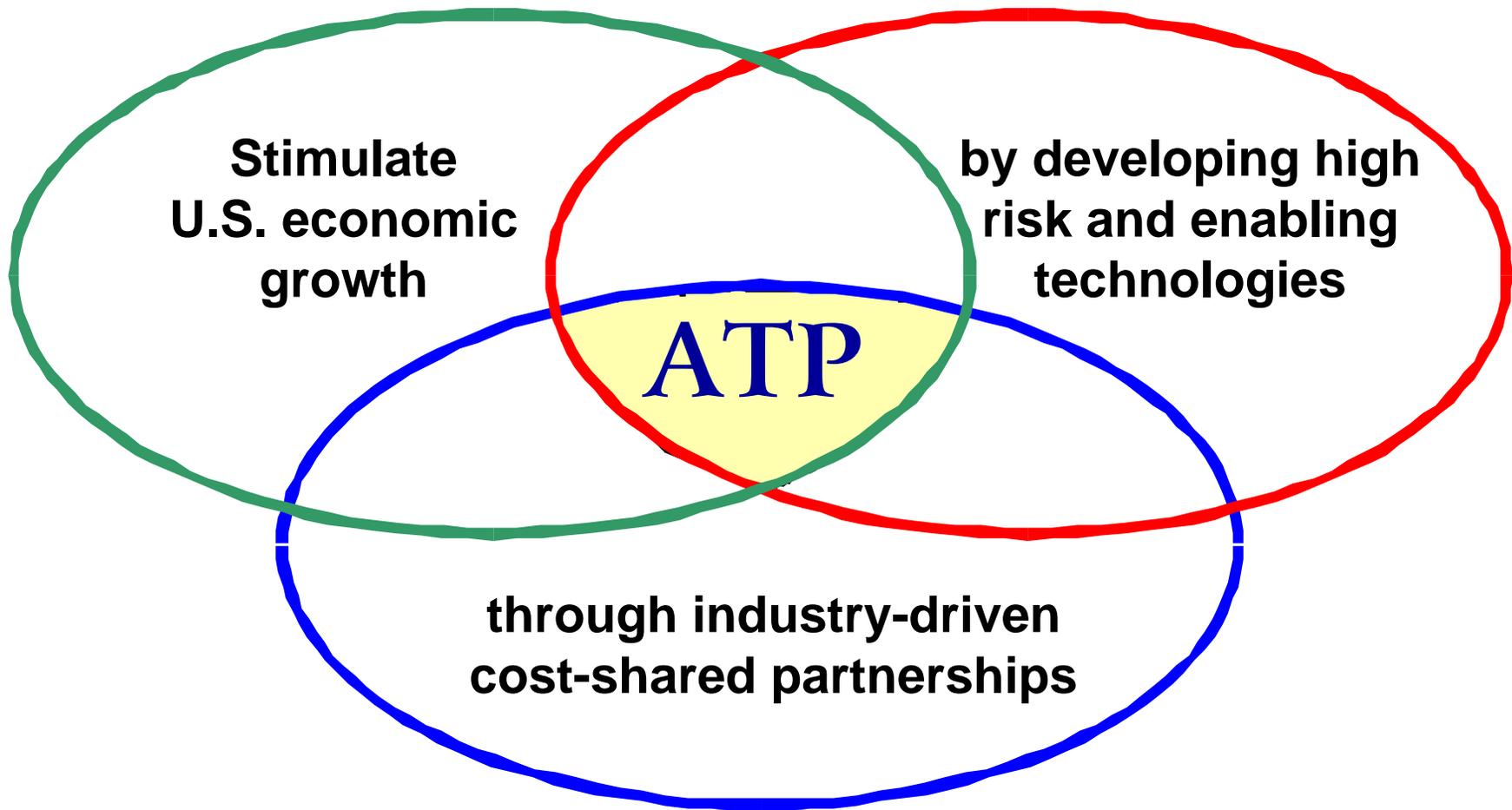
... A complex and fascinating industry that is redefined with each breakthrough technology!





- Introduction to the ATP
- ATP Benefits and Your Involvement
- Getting More Information

ATP Mission



Critical Features of the ATP

- Unique mission focus: *technology to benefit the U.S. economy*
- Industry-driven
- Product development not funded
- Fair competition
- Government-industry partnership



ATP Eligibility

- ## Single Proposers

- ✓ No more than 3 years
- ✓ Up to \$2M total NIST funds
- ✓ NIST pays only direct costs
- ✓ Large companies cost share at least 60% of project cost
- ✓ No direct funding to universities, governmental laboratories or non-profit independent research organizations

- ## Joint Ventures

- ✓ No more than 5 years
- ✓ No limit on award amount
- ✓ NIST share less than 50%
- ✓ Must involve two or more for-profit companies, both doing research, and both contributing to the cost share
- ✓ JV administrator may be industry or independent research organization

Foreign Company Participation

- i U.S.-incorporated, foreign-owned companies are eligible to apply
- i Project must result in economic benefits to the U.S.
 - ✓ R&D and manufacturing in the U.S.
 - ✓ Increase U.S. employment
 - ✓ Promote U.S. supplier information
 - ✓ All companies also must meet these requirements
- i Country of origin must provide local investment and grant opportunities to U.S.-owned companies comparable to any other company in that country and protect intellectual property rights
- i PL 102-245 authorizes suspension of award if criteria no longer satisfied

Intellectual Property Provisions

- Companies incorporated in the U.S. keep intellectual property rights
- Companies can license
- Government reserves the right to royalty-free non-exclusive license for government use
 - ✓ Non-disclosure (trade secrets protected)
 - ✓ Government rights rarely invoked
- Universities and non-profit research organizations may receive royalties but cannot own title to intellectual property
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Two Ways to Participate in ATP

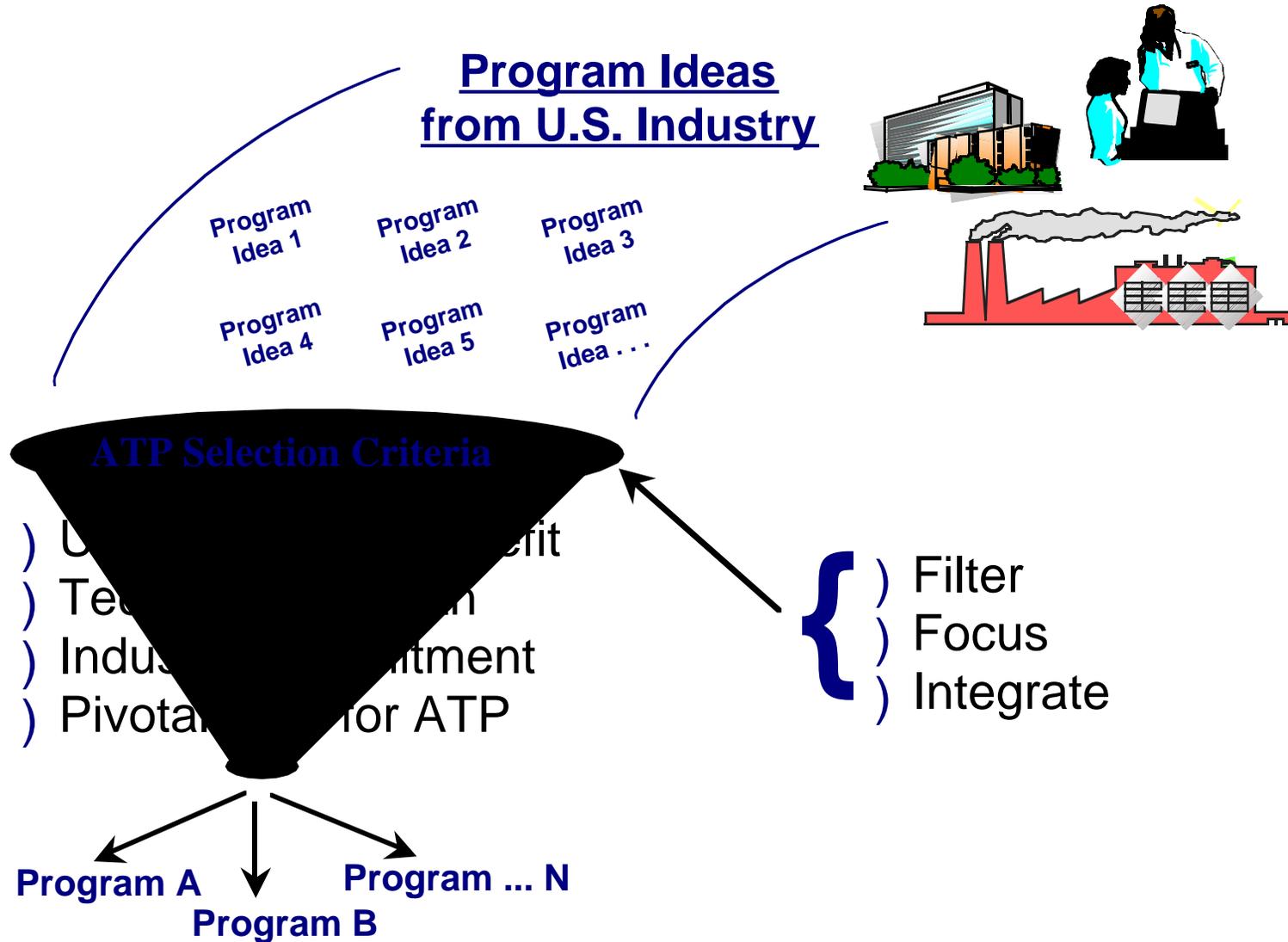
- General Competitions
open to all technologies/industries
- Focused Program Competitions
clusters of related projects
- ✓ ***A Guide for Program Ideas*** is available:
 - Toll-free number: 1-800-287-3863
 - E-mail request: atp@nist.gov
 - Internet URL: <http://www.atp.nist.gov/atp/guidei2.htm>



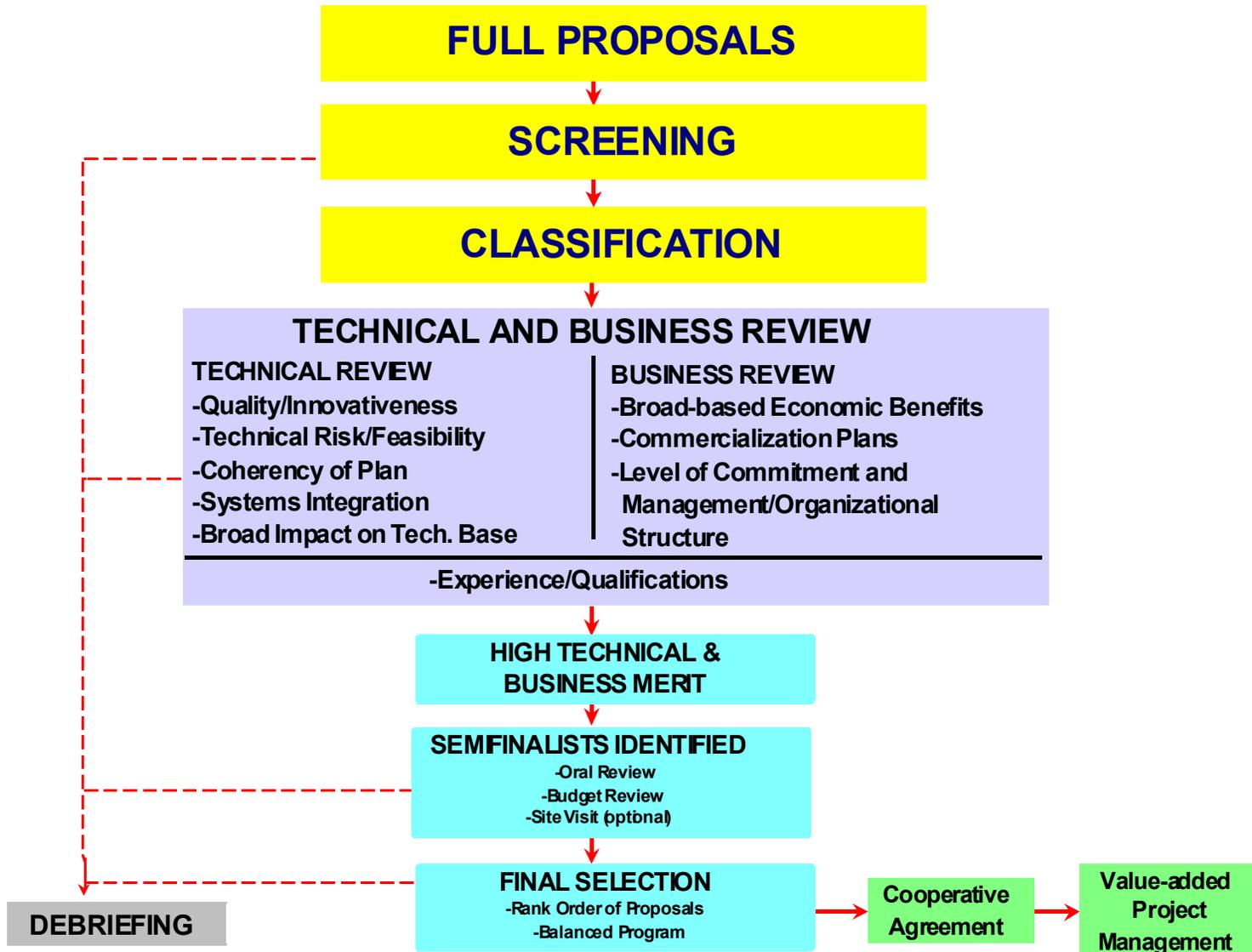
Focused Programs

- **Tools for DNA Diagnostics**
- **Information Infrastructure for Healthcare**
- **Manufacturing Composite Structures**
- **Component-Based Software**
- **Technologies for the Integration of Manufacturing Applications (TIMA)**
- **Tissue Engineering**
- **Photonics Manufacturing**
- **Premium Power**
- **Selective-Membrane Platforms**
- **Catalysis and Biocatalysis Technologies**
- **Motor Vehicle Manufacturing Technology**
- **Digital Data Storage**
- **Digital Video in Information Networks**
- **Vapor Compression Refrigeration Technology**
- **Materials Processing for Heavy Manufacturing**
- **Microelectronics Manufacturing Infrastructure**
- **Adaptive Learning Systems**

ATP Program Definition Process

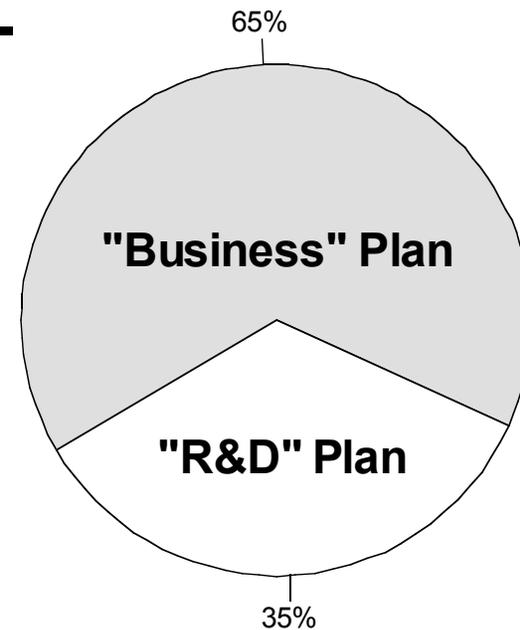


ATP Project Selection Process



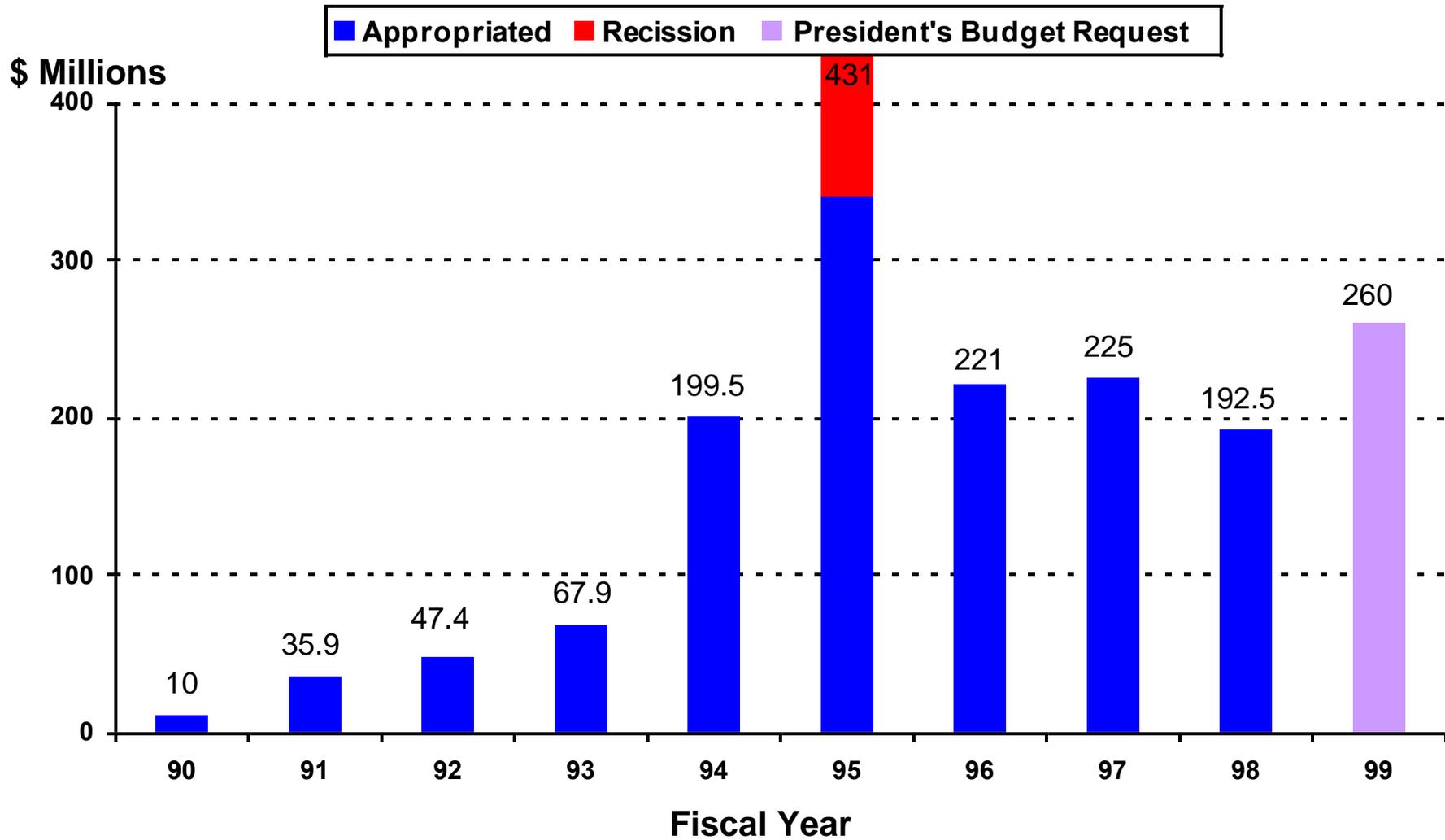
Project Selection Criteria

- **Scientific and Technical Merit - 30%**
- **Broad-based U.S. Economic Benefits - 20%**
- **Commercialization Planning - 20%**
- **Level of Commitment and Organizational Structure - 20%**
- **Experience and Qualifications - 10%**





ATP Budget Profile



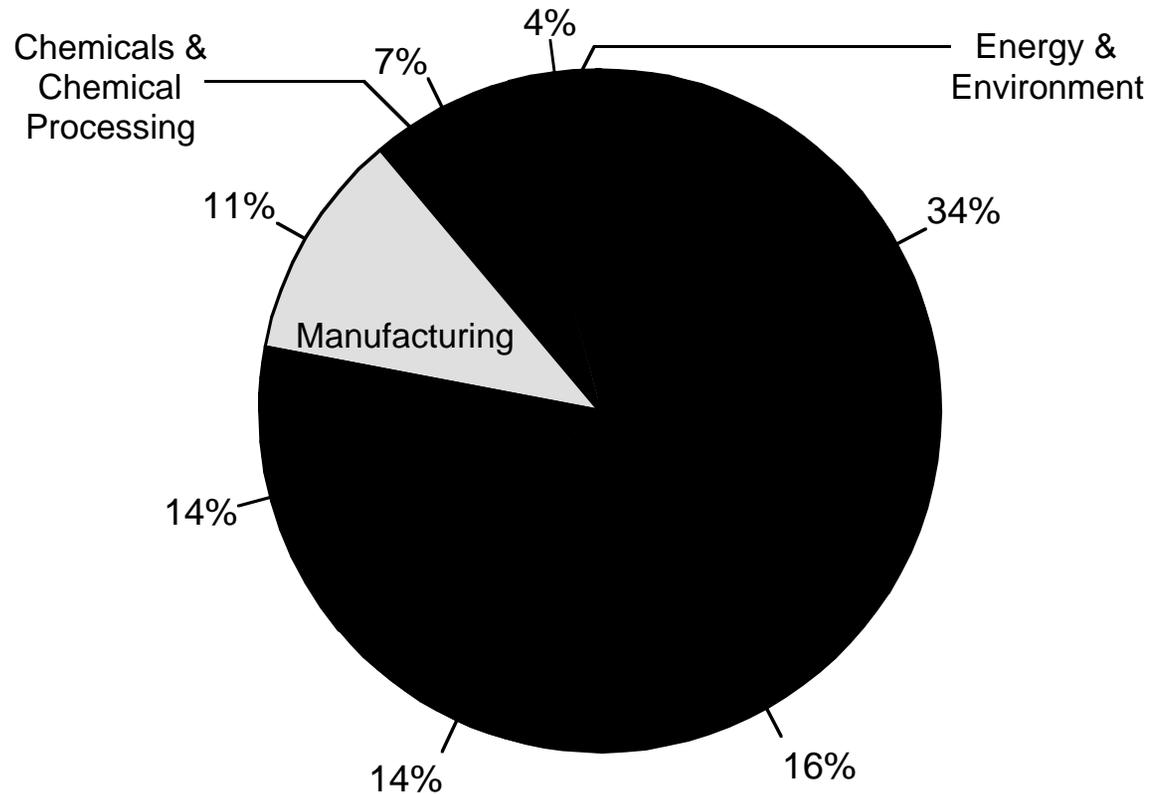


Status of ATP

- 3,083 proposals submitted
- 352 projects funded with 842 participants
- \$2.32 billion advanced technology development funded
 - ✓ \$1.15 billion in ATP share
 - ✓ \$1.17 billion in industry cost share
- Small businesses are thriving
 - ✓ > 50% of projects are led by small businesses
 - ✓ Joint ventures have many small business participants
- Universities play a significant role
 - ✓ More than 100 different universities involved
 - ✓ More than 250 instances of participation
- Federal laboratories participate

352 Awards By Technology Area

(As a percent of \$1,151 M)



Thirty Competitions (1990-1997)



ATP Benefits

- Facilitated and accelerated high-risk research
- Stimulated collaboration and formation of strategic alliances
- Shortened R&D cycle
- Accelerated commercialization of the ATP-related technology
- Attracted additional funding
- Improved competitive standing
- Discovery of new applications for ATP technology
- Change in corporate philosophy



ATP and the Wireless Industry

- Invitation to open dialogue; industry advice/ideas
 - ✓ where does industry need to go?
 - ✓ when does it need to arrive?
 - ✓ why does it need ATP?
 - ✓ why should the nation care?
 - ✓
- Criteria for selecting ATP programs:
 - ✓ potential U.S. economic benefit
 - ✓ good technical ideas
 - ✓ strong industry commitment
 - ✓ opportunity for ATP funds to make a significant difference



Contact Information

To Browse ATP Information

World Wide Web <http://www.atp.nist.gov>

To Get on the ATP Mailing List

CONTACT

Call toll-free	800-ATP-FUND 800-287-3863
Fax your name and address to:	301-926-9524
Send an email message to:	atp@nist.gov